-3/2 power rule, 317

Abies balsamea, 86
Acer saccharum, 297
Adaptation, 531
Adjacency constraint formulations, 423
Adjacency constraints, 176
Aggregate, 377
Aggregation, 507
Air temperature, 297
Alaska, 478
Analytical hierarchy process, 62
Analytical solutions, 291
Annual tree survival, 127
Aquatic habitat restoration, 13
Area-based forest planning, 423
Area-restricted planning, 204
Arkansas, 335
Armillaria ostoyae, 356
Artificial Neural Network (ANN), 229
Australian eucalypts, 397
Auxiliary data, 108

Bacillus, 437
Balsam fir. *See Abies balsamea*
Base-age invariance, 116
Base-age specific equations, 116
Base-age variant, 291
Baseline fluctuation, 507
Bequest, 219
Biodiversity, 452
Biomass, 478
Black and Scholes formula, 32
Bleached softwood pulp sector, 558
Boreal forest, 478
Boston Mountains, 335
Buffer area, 548

Calibration estimation, 390
Call option pricing, 32
Canopy gap size, 356
Capital income taxes, 219
Carbon allocation, 531
Carbon sequestration, 302
Centroid method, 473
Cholesky decomposition, 269
Climate, 248, 297
Climate change, 487, 507
Climatic variables, 229
Coarse woody debris, 13
Community social change, 410
Comparative statics, 132, 284
Competition index, 277
Conservation, 139
Consumer surplus, 496
Correlated binary data, 95
Correlated proportions, 95
Cost and production functions, 558
Cost efficiency, 40, 558
Cost minimization, 132
Crown scorch, 258

Data envelopment analysis (DEA), 558, 577
Decision making, 62
Dendrochronology, 229
Dendroclimatology, 229
Dendroctonus frontalis, 95
Dendrometers, 570
Dendrometry, 473
Deregulation, 40
Diameter distribution prediction, 390
Diameter growth, 127
Diameter measurement, 570
Disease resistance, 531
Douglas-fir. *See Pseudotsuga menziesii*
Drought, 487, 531
Duality, 132
Dynamic programming, 176
Dynamic site equations, 116

Early growth, 487
Ecological model, 269
Ecological restoration, 52
Ecological risk perception, 344
Econometric analysis, 363, 537
Ecosystem monitoring, 297
Efficiency, 577
Elasticities, 377
Emergy, 521
Endangered species, 302
Evaluation, 521
Expectations, 377
Expert judgments, 344

Faustmann, 132
Fire management, 442
Fire research, 62
Flexible Management Model, 23
Forecasting, 363
Forest access roads, 76
Forest area, 363, 548
Forest growth, 229, 248, 269
Forest industry activities, 344
Forest inventory, 76, 108, 548, 570
Forest management, 153, 188, 302, 423
Forest pathogens, 356
Forest planning, 204, 240
Forest policy, 302
Forestry Corporation of New Zealand, 32
Forestry income taxation, 219
Forest sector, 40
Forest taxes, 132
Forest value, 32, 240
Fragmentation indexes, 548
Fuel, 52
Fuels management, 442

Generalized Algebraic Difference Approach, 116
Generalized estimating equations, 95
Generalized log-logistic height equation, 291
Genotypic stability, 487
GIS, 76, 157
Goal programming, 390
GPS, 76
Group decision making, 62
Growth and yield, 116
Growth modeling, 277
Guided Transect Sampling, 108
G _ E interaction, 487

Harvest choices, 377
Harvesting, 23
Harvest scheduling, 176, 188, 204, 423
Herbaceous production, 52
Herpetofauna, 139
Heuristic, 188, 204
High-resolution imagery, 478

Ignition delay, 442
Importance sampling, 473
Individual-tree competition model, 277
Inheritable tax exemptions, 219
Instrumentation, 570
Integer programming, 157, 168, 423, 442
Inventory updates, 116

Juniper, 52

Landowners, 132
Land rent, 363
Landscape-level planning, 176
Lay perceptions, 344
Linear programming, 390, 442
Liriodendron tulipfera, 248
Loblolly pine. *See Pinus taeda*
Logging, 139, 344
Logging debris, 13
Logistic regression, 95, 127
Log price volatility, 32

Madrone, 52
Marginal models, 95
Max-Burkhart, 473
Maximum likelihood estimators, 127
Mensuration, 570
Mexico, 52
Mixed effects, 116
Mixed stands, 277
Mortality, 52
Multiobjective optimization, 157
Mycorrhizae, 437

National forest planning, 240
Natural regeneration, 168

-3/2 power rule, 317

Abies balsamea, 86
Acer saccharum, 297
Adaptation, 531
Adjacency constraint formulations, 423
Adjacency constraints, 176
Aggregate, 377
Aggregation, 507
Air temperature, 297
Alaska, 478
Analytical hierarchy process, 62
Analytical solutions, 291
Annual tree survival, 127
Aquatic habitat restoration, 13
Area-based forest planning, 423
Area-restricted planning, 204
Arkansas, 335
Armillaria ostoyae, 356
Artificial Neural Network (ANN), 229
Australian eucalypts, 397
Auxiliary data, 108

Bacillus, 437
Balsam fir. *See Abies balsamea*
Base-age invariance, 116
Base-age specific equations, 116
Base-age variant, 291
Baseline fluctuation, 507
Bequest, 219
Biodiversity, 452
Biomass, 478
Black and Scholes formula, 32
Bleached softwood pulp sector, 558
Boreal forest, 478
Boston Mountains, 335
Buffer area, 548

Calibration estimation, 390
Call option pricing, 32
Canopy gap size, 356
Capital income taxes, 219
Carbon allocation, 531
Carbon sequestration, 302
Centroid method, 473
Cholesky decomposition, 269
Climate, 248, 297
Climate change, 487, 507
Climatic variables, 229
Coarse woody debris, 13
Community social change, 410
Comparative statics, 132, 284
Competition index, 277
Conservation, 139
Consumer surplus, 496
Correlated binary data, 95
Correlated proportions, 95
Cost and production functions, 558
Cost efficiency, 40, 558
Cost minimization, 132
Crown scorch, 258

Data envelopment analysis (DEA), 558, 577
Decision making, 62
Dendrochronology, 229
Dendroclimatology, 229
Dendroctonus frontalis, 95
Dendrometers, 570
Dendrometry, 473
Deregulation, 40
Diameter distribution prediction, 390
Diameter growth, 127
Diameter measurement, 570
Disease resistance, 531
Douglas-fir. *See Pseudotsuga menziesii*
Drought, 487, 531
Duality, 132
Dynamic programming, 176
Dynamic site equations, 116

Early growth, 487
Ecological model, 269
Ecological restoration, 52
Ecological risk perception, 344
Econometric analysis, 363, 537
Ecosystem monitoring, 297
Efficiency, 577
Elasticities, 377
Emergy, 521
Endangered species, 302
Evaluation, 521
Expectations, 377
Expert judgments, 344

Faustmann, 132
Fire management, 442
Fire research, 62
Flexible Management Model, 23
Forecasting, 363
Forest access roads, 76
Forest area, 363, 548
Forest growth, 229, 248, 269
Forest industry activities, 344
Forest inventory, 76, 108, 548, 570
Forest management, 153, 188, 302, 423
Forest pathogens, 356
Forest planning, 204, 240
Forest policy, 302
Forestry Corporation of New Zealand, 32
Forestry income taxation, 219
Forest sector, 40
Forest taxes, 132
Forest value, 32, 240
Fragmentation indexes, 548
Fuel, 52
Fuels management, 442

Generalized Algebraic Difference Approach, 116
Generalized estimating equations, 95
Generalized log-logistic height equation, 291
Genotypic stability, 487
GIS, 76, 157
Goal programming, 390
GPS, 76
Group decision making, 62
Growth and yield, 116
Growth modeling, 277
Guided Transect Sampling, 108
G _ E interaction, 487

Harvest choices, 377
Harvesting, 23
Harvest scheduling, 176, 188, 204, 423
Herbaceous production, 52
Herpetofauna, 139
Heuristic, 188, 204
High-resolution imagery, 478

Ignition delay, 442
Importance sampling, 473
Individual-tree competition model, 277
Inheritable tax exemptions, 219
Instrumentation, 570
Integer programming, 157, 168, 423, 442
Inventory updates, 116

Juniper, 52

Landowners, 132
Land rent, 363
Landscape-level planning, 176
Lay perceptions, 344
Linear programming, 390, 442
Liriodendron tulipfera, 248
Loblolly pine. *See Pinus taeda*
Logging, 139, 344
Logging debris, 13
Logistic regression, 95, 127
Log price volatility, 32

Madrone, 52
Marginal models, 95
Max-Burkhart, 473
Maximum likelihood estimators, 127
Mensuration, 570
Mexico, 52
Mixed effects, 116
Mixed stands, 277
Mortality, 52
Multiobjective optimization, 157
Mycorrhizae, 437

National forest planning, 240
Natural regeneration, 168

Natural reserve design, 157
Natural resource inventory, 108
Natural resource planning, 62, 153
New Zealand, 32, 40
Nonindustrial private forest owners, 302
Nonindustrial private forests, 139
Nonlinear optimization, 277, 390
Nontimber services, 302
North Carolina, 478
Northern hardwoods, 297
Norway, 537
Norway spruce. *See Picea abies*
Numerical solutions, 291
Nutrient cycles, 335

Oak-pine forest, 52
Optimal harvesting, 23
Optimal rotation age, 176
Optimal thinning, 23
Optimization, 277, 452
Oregon, 13, 258

Pacific Northwest, 410
Path analysis, 356
Pavement classification, 76
Pennsylvania, 139
Percentiles, 390
Perimeter-area ratio, 548
Persistence, 507
Pest interactions, 356
Physiological modeling, 86
Picea abies, 277, 452
Pine, 377
Pinus elliottii, 317
P. koraiensis, 284
P. ponderosa, 356
P. sylvestris, 23, 277, 487
P. taeda, 127, 248, 437
Pipe model theory, 86
Plant diversity, 258
Plant growth promoting rhizobacteria (PGPR), 437
Planting subsidies, 132
Policy issues, 344
Policy reforms, 40
Polymorphism, 116
Polynomial solutions, 291
Ponderosa pine. *See Pinus ponderosa*
Pooled regression, 537
Power function, 397
Prediction, 269
Prescribed burning, 258, 322
Price risk, 23
Priority setting, 62
Privatization, 40
Probit, 377
Production efficiency, 219
Productivity, 577
Proxy tree taper functions, 473
Pseudotsuga menziesii, 229, 531
Puerto Rico, 521
Purshia tridentata, 258

Rank correlation, 269
Recreation, 496
Red pine. *See Pinus koraiensis*
Reforestation, 521
Regression models, 410
Remote sensing, 478
Reserve site selection, 157
Resource-dependent communities, 410
Resource production, 410
Response function analysis, 229
Returns to size, 537
Risk communication, 344
Road construction scheduling, 188, 204
Road networks, 188
Roads, 76
Root chemistry, 531
Root mortality, 258

Satellite imagery, 478
Sawlog demand, 537
Sawmilling, 537
Scots pine. *See Pinus sylvestris*
Seedling development, 437
Seed production, 284
Seed trees, 168
Seemingly unrelated regressions, 1
Segmented polynomials, 1
Segmented stem system, 1
Self-thinning, 317
Semivariance, 478
Sierra Madre Occidental, 52
Silviculture treatments, 335
Site index, 116
Site-index models, 291
Site productivity, 258
Site quality, 157
Size–density relationship, 317
Slash pine. *See Pinus elliottii*
Social change, 410
Soil temperature, 297
Soil-water movement, 335
Southern pine beetle. *See Dendroctonus frontalis*
Spanning trees, 204
Spatial autocorrelation, 95
Spatial constraints, 188, 204
Spatial modeling, 153–218
Spatial optimization, 168, 423, 442
Spatial prediction, 95
Spring underburning, 258
Stand management, 168
Steady state, 452
Stem form, 397
Stem form development, 86
Stochastic frontier analysis (SFA), 558
Stochastic frontier models, 40
Stochastic prices, 23
Stream management, 13
Strip survey, 108
Stumpage prices, 23
Substitute activities, 496
Substitution, 537
Sugar maple. *See Acer saccharum*
Sustainability, 168
Symbiosis, 437

Tabu search, 188, 452
Tactical planning, 188
Taiwan, 577
Taper equations, 397
Taper function, 473
Taxation, 219
Technical and allocative efficiency, 558
Temperate forest, 478
Temperature, 248
Temporal autocorrelation, 95
Thinning, 23
Timber extraction, 76
Timber management, 284
Timber supply, 377
Tradeoff analysis, 157, 188
Transect surveys, 108
Translog cost function, 537
Travel cost, 496
Tree growth, 258
Tree-ring chronologies, 507
Tree-ring growth response, 229
Tree volume, 473
TREGRO, 248
Trigonometric base function, 397
Trigonometric exponent function, 397
Truncation, 496
Tsuga heterophylla, 86
Two-stage sampling, 108

Uncertainty analysis, 269
Understory, 258
Uneven-aged management, 452
Upper stem diameters, 1

Value typology, 240
Variable asymptotes, 116
Vegetative growth, 507
Vertical foliage structure, 86
Volume-taper models, 1

Water environments, 344
Watershed, 335
Weibull, 390
Western hemlock. *See Tsuga heterophylla*
Wildfire, 52
Wildland fire management, 322
Woody debris, 13
Workshop process, 62

Yellow-poplar. *See Liriodendron tulipfera*

AUTHOR INDEX

Ahn, S., 363
Alfaro, R.I., 229
Alig, R.J., 302, 363
Amacher, G.S., 40, 132
Axelrod, L., 344

Baardsen, S., 537
Bailey, R.L., 1, 116
Baldwin, V.C., Jr., 317
Bateman, D.S., 13
Bevers, M., 168, 442
Beyea, J., 139
Bi, H., 390
Borders, B.E., 1
Borges, J.G., 176
Bourgeau-Chavez, L., 478
Bowker, J.M., 496
Braze, J., 423
Brazee, R.J., 23, 132
Brown, G., 240
Brown, S.E., 297
Bulte, E., 23
Burton, A.J., 297
Busse, M.D., 258

Cao, Q.V., 127, 317
Cavanaugh, N., 344
Church, R., 157
Cieszewski, C.J., 116, 291
Clark, M.M., 204
Clark, N.A., 570
Coble, D.W., 473
Constable, J.V.H., 248
Covington, W.W., 52

Dean, T.J., 317
Doherty, S.J., 521

Enebak, S.A., 437
Eriksson, G., 487

Fang, Z., 1
Force, J.E., 410
Fredericksen, N.J., 139
Frederiksen, T., 139
Fulé, A.G-A., 52

Gerrard, R., 157
Grebner, D.L., 40
Guan, B.T., 269
Gumpertz, M.L., 95
Gunn, E.A., 188

Hebda, R.J., 229
Hesseln, H., 322
Hof, J., 168, 442
Hoffman, W., 139
Hoganson, H.M., 176
Hollander, A., 157
Hughes, W.R., 32

Johnson, B.N., 139
Johnson, R.L., 302

Kao, C., 577
Kangas, A., 390
Kasischke, E.S., 478
Keim, R.F., 13
Kershaw, J.A., Jr., 86
Kharecha, P.A., 521
Kleinn, C., 548
Kline, J.D., 302

Lämås, T., 108
Laven, R.D., 442
Lawson, E.R., 335
Lester, M.B., 139
Li, C-Z, 284
Lofgren, K-G., 284
Lundquist, J.E., 356

Machlis,G.E., 410
Maguire, D.A., 86
Maltamo, M., 390
Marsinko, A., 496
Martin, A., 76
McDaniels, T., 344
McDill, M.E., 423
McDonald, T.P., 204
Meller, R.D., 204
Miina, J., 277
Mika, P.G., 531
Moore, J.A., 531
Morrison, M.L., 139
Murray, A., 153

O'Mahony, M., 76
Odum, H.T., 521
Omi, P.N., 442
Owende, P., 76
Peterson, D.L., 62
Plantinga, A.J., 363
Pregitzer, K.S., 297
Prestemon, J.P., 377
Pukkala, T., 277
Pye, J.M., 95

Reed, D.D., 297
Reed, P., 240
Retzlaff, W.A., 248
Richards, E.W., 188
Riegel, G.M., 258
Ringvall, A., 108
Ross, B., 139
Ross, E., 139

Scatena, F.N., 521
Schmoldt, D.L., 62, 570
Shaw, T.M., 531
Shugart, H.H., 478
Simon, S.A., 258
Skaugset, A.E., 13
Slovic, P., 344
Snyder, S., 153
Sonesson, J., 487
Ståhl, G., 108
Steele, K.F., 335
Stoms, D., 157

Uusivuori, J., 219

Vonderwell, J.D., 437

Ward, S., 76
Wear, D.N., 377
Wheeler, G.L., 335
Wiant, H.V., Jr., 473
Wikström, P., 452
Wright, B.D., 507
Wu, C., 95
Wynne, R.H., 570

Yin, R., 558
Yoo, S.J., 507

Zawacki, W.T., 496
Zhang, L., 410
Zhang, Q-B, 229
Zhang, Q-J, 229

Book Reviewers

Brown, A.G.
Carey, A.B.
Harrington, T.B.
Kelty, M.J.
Merkle, S.A.
Price, T.S.
Shear, T.H.
Spies, T.A.
Wiffen, H.
Wright, S.J.